

Description:

Techmat is a mechanically bonded glassfiber insulation blanket of uniform density. It offers reliable, superior thermal and acoustical performance in continuous operating temperatures up to 1000°F (538°C) and excursions to 1200°F (649°C).

Techmat is manufactured from a well-controlled assortment of long textile 100% glass fibers to assure uniform mechanical bonding with no additional binders, thereby assuring insulation efficiency during extended exposure of elevated temperatures.

Techmat is sold in various configurations including roll goods, die cut parts, preforms, sheets, and foil faced. Other configurations can be engineered to meet your specific requirements.

Applications:



- Automotive catalytic converter
- Ship turbines
- Power generating equipment
- Supercharger covers
- Muffler & exhaust insulation
- Industrial & process piping
- Removable Pads
- Marine piping
- Industrial ovens & furnaces
- Headliner insulation
- Flooring & dash insulation
- Filtration

Product Characteristics:

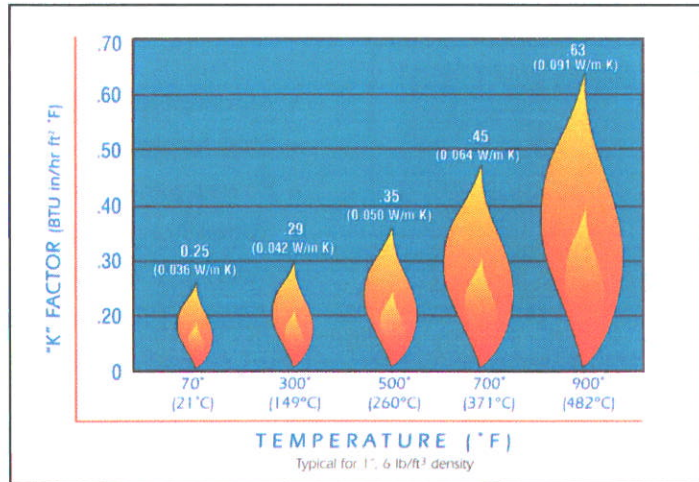
- Low thermal conductivity at temperatures up to 1000°F (538°C)
- Good drape-ability - conforms to irregular surfaces
- U.L.® listed - 0 flame spread, 0 smoke generated
- Non respirable, 9 micron filament diameter
- Excellent vibration resistance, will not powder
- Excellent sound absorption properties (NRC avail. upon request)
- Non-alkaline (<0.01%)
- Low chlorides and fluorides
- Will not contribute to metal corrosion
- Odorless - will not absorb odors - clean
- Will not decay or sustain mold or vermin
- Moisture absorption negligible



Acoustical Ratings:

| Frequency (Hz) | 1/4" Techmat | 1/2" Techmat | 1" Techmat |
|-----------------------------|--------------|--------------|------------|
| 250 | .04 ± .02 | .07 ± .02 | .15 ± .04 |
| 500 | .12 ± .01 | .24 ± .01 | .6 ± .03 |
| 1000 | .29 ± .01 | .55 ± .01 | 1.02 ± .02 |
| 2000 | .51 ± .01 | .79 ± .02 | 1.08 ± .02 |
| 4000 | .65 ± .01 | .91 ± .02 | .92 ± .02 |
| Noise Reduction Coefficient | 0.25 | 0.40 | 0.70 |

Thermal Ratings:



On initial heat-up past 300° F, there is some out-gassing due to a small residual of organics on the glass fiber surface. Adequate ventilation and exhaust should be provided for any enclosed applications during this period.

Configurations available:

- Roll Goods:
 - Thicknesses: 1/8", 1/4", 1/2", 1"
 - Widths: 46", 48"
- Foil Faced
- Die Cut Parts
- Preforms
- Sheets

Physical Properties:

| Measure | Style | Thickness (in)** | Mass (oz/ft²) | Density (lb/ft³) | Width* (in) | Roll* Length (ft) | Area (per roll) (ft²) | Roll Mass (Net) (lb.) |
|---------|--------|------------------|---------------|------------------|-------------|-------------------|-----------------------|-----------------------|
| English | A04008 | 1/8 | 1.0 | 6.0 | 46 | 300 | 1150 | 71.9 |
| Metric | | (3.18mm) | (305g/m²) | (96 kg/m³) | (116.8 cm) | (91.4 m) | (106.8 m²) | (32.6 kg) |
| English | A04007 | 1/4 | 2.0 | 6.0 | 46 | 150 | 575 | 71.9 |
| Metric | | (6.35mm) | (610 g/m²) | (96 kg/m³) | (116.8 cm) | (45.7 m) | (53.4 m²) | (32.6 kg) |
| English | A04003 | 1/2 | 4.0 | 6.0 | 48 | 75 | 300 | 75.0 |
| Metric | | (12.7 mm) | (1220 g/m²) | (96 kg/m³) | (121.9 cm) | (22.9 m) | (27.9 m²) | (34.0 kg) |
| English | A04002 | 1 | 8.0 | 6.0 | 48 | 50 | 200 | 100.0 |
| Metric | | (25.4mm) | (2440 g/m²) | (96 kg/m³) | (121.9 cm) | (15.2 m) | (18.6 m²) | (45.4 kg) |

* Special widths and roll lengths are available on a made to order basis
 **Special thicknesses are available upon request